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(12) Patent Application:

(11) CA 2112277

(54) CROCETIN-CONTAINING COLORING

(54) COLORANT CONTENANT DE LA CROCETINE

[View or Download Images](#)**ABSTRACT:****ABSTRACT OF THE DISCLOSURE**

A stabilized crocetin-containing colorant which has as an effective component a crocetin included by cyclodextrin. This colorant is imparted with resistance against light and various chemicals to crocetin, which is a hydrolysate of crocin, the main component of the carotenoid gardenia yellow pigment. The colorant may be added to various food products for use of crocetin as a stable coloring matter.

**CLAIMS:** [Show all claims](#)

\*\*\* Note: Data on abstracts and claims is shown in the official language in which it was submitted.

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**Patent Document Number 2112277 :**  
**CROCETIN-CONTAINING COLORING****COLORANT CONTENANT DE LA CROCETINE****CLAIMS:**

THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

1. A colorant consisting essentially of crocetin included by cyclodextrin.
2. The colorant according to Claim 1, wherein the cyclodextrin is .alpha.-cyclodextrin.
3. The colorant according to Claim 1, wherein the cyclodextrin is a mixture of .alpha.-cyclodextrin and at least one member selected from the group consisting of .beta.-cyclodextrin and .gamma.-cyclodextrin.
4. The colorant according to Claim 1, wherein the cyclodextrin is a mixture of .alpha.-, .beta.- and .gamma.-cyclodextrins.
5. The colorant according to Claim 1, wherein the cyclodextrin is a mixture of .alpha.-cyclodextrin, dextrin and at least one member selected from the group consisting of .beta.-cyclodextrin and .gamma.-cyclodextrin.
6. The colorant according to Claim 1, wherein the cyclodextrin is a mixture of dextrin and .alpha.-, .beta.- and .gamma.-cyclodextrin.
7. A process for producing the colorant as defined in Claim 1, 2, 3, 4, 5 or 6, which comprises: adding an aqueous alkaline solution of

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- crocetin to a water paste of the cyclodextrin, and stirring to resulting mixture.
8. The process according to Claim 7, wherein: the stirring is conducted while cooling so that the temperature does not rise above 80°C, and the stirred mixture is subjected to centrifugal separation to separate the crocetin included by the cyclodextrin from the non-included crocetin.
9. A food or beverage colored by the colorant as defined in Claim 1, 2, 3, 4, 5 or 6.
10. The colored food or beverage according to Claim 9, which is a refreshment beverage containing sugar and lemon juice.
11. The colored food or beverage according to Claim 9, which is a fondant containing corn starch and sugar.
12. The colored food or beverage according to Claim 9, which is a candy.

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